

**WHAT IS CLAIMED IS:**

1. An assembly for supporting a mask frame to a stud of a panel in a cathode ray tube having a longitudinal tube axis, comprising:

said mask frame having a rectangular rim disposed in parallel with said tube axis, having a flange vertically extending from a rear end of said rectangular rim toward said tube axis and perpendicular to said tube axis;

a shadow mask having a skirt fixed on an inside surface of a front end of said rectangular rim, having a first plane perpendicular to said tube axis and passing a central surface of said shadow mask;

a bracket having a suspending arm joined by a connecting arm to a fixing arm, said suspending arm and said fixing arm spaced apart from each other and disposed in parallel with said tube axis;

said suspending arm being provided with a hole coupled to said stud;

said fixing arm fixed on an outside surface of said rectangular rim of said mask frame; and

said connecting arm having a second plane substantially parallel to said first plane of said shadow mask and spaced apart from said first plane of said shadow mask by a first distance, said first distance being greater than a second distance between said first plane of said shadow mask and a third plane passing a center line of said stud.

1           2.       The assembly of claim 1, wherein said connecting arm is perpendicular to both said  
2 fixing arm and said suspending arm.

1           3.       The assembly of claim 2, said connecting arm having a length of about 5-40 mm.

1           4.       The assembly of claim 1, said connecting arm having a characteristic for absorbing  
2 vibration transmitted from both said mask frame and said panel and offsetting the vibration.

1           5.       The assembly of claim 1, wherein said suspending arm, said connecting arm, and  
2 said fixing arm are made in a single body and a flat plate.

1           6.       The assembly of claim 1, said connecting arm being wave-shaped.

1           7.       The assembly of claim 1, said suspending arm and said fixing arm being flat plates  
2 spaced apart from each other by about 5-40 mm.  
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1           8.       The assembly of claim 1, further comprising a bent formed between said suspending  
2 arm and said connecting arm and being round.

1           9.       The assembly of claim 1, said flange of said mask frame placed on said second plane  
2 of said connecting arm.

1           10. The assembly of claim 1, said skirt of said shadow mask being closer to said third  
2 plane of said stud than said second plane of said connecting arm.

1           11.     An assembly in a picture tube having a longitudinal tube axis, comprising:  
2           a mask frame being a rectangular rim parallel to said tube axis;  
3           a shadow mask having a skirt fixed on an inside surface of said rectangular rim, having a first  
4 plane perpendicular to said tube axis and passing a central surface of said shadow mask;  
5           a stud formed on and extending inwardly from a sidewall of a panel of said picture tube;  
6           a bracket having a suspending arm joined by a connecting arm to a fixing arm, being made  
7 in a single body, said suspending arm and said fixing arm being flat plates and parallel to each other;  
8           said fixing arm fixed on an outside surface of said rectangular rim of said mask frame  
9 opposite to said shadow mask while said suspending arm coupled to said stud; and  
10          said connecting arm having a second plane substantially parallel to said first plane and  
11 spaced apart from said first plane by a first distance greater than a second distance between said first  
12 plane of said shadow mask and a third plane passing a center line of said stud.

1           12.     The assembly of claim 11, said suspending arm and said fixing arm being parallel  
2 to said tube axis and perpendicular to said connecting arm.

1           13.     The assembly of claim 11, said connecting arm being U shaped.

1 14. The assembly of claim 11, said connecting arm being wave shaped.

1 15. The assembly of claim 11, said connecting arm having a characteristic for absorbing  
2 vibration transmitted from both said panel and said mask frame and offsetting said vibration.

1 16. The assembly of claim 11, said connecting arm and said fixing arm being right-  
2 angled to each other.

1 17. The assembly of claim 11, said bracket having a bent formed between connecting  
2 arm and any one of said suspending arm and said fixing portion.

1 18. The assembly of claim 11, said connecting arm having a length of about 5-40 mm.

1 19. The assembly of claim 11, said suspending arm and said fixing arm being spaced  
2 apart from each other by about 5-40 mm.

1 20. The assembly of claim 11, said bracket having an opening formed between free ends  
2 of said suspending arm and said fixing arm, said opening opposite to said connecting arm, said stud  
3 disposed between said opening and said connecting arm.